

Report Date: 17 Dec 2014

Summary Report for Individual Task
551-88M-1517
Operate Heavy Equipment Transporter (HET) on Improved Roads
Status: Approved

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

Foreign Disclosure: FD5 - This product/publication has been reviewed by the product developers in coordination with the Fort Lee, VA foreign disclosure authority. This product is releasable to students from all requesting foreign countries without restrictions.

Condition: In an operational environment, on an improved roadway, given a mission-ready coupled M1070/M1000 HET Tractor-semitrailer combination, hearing protection, route to maneuver and an assistant driver. Some iterations of this task should be performed in MOPP 4.

Standard: Operate the HET Tractor-semitrailer combination with 100% accuracy, on improved roadway adhering to all route limitations of weight, height, and width without causing injury to personnel or damage to equipment or roadway.

Special Condition: None

Safety Risk: High

MOPP 4: Sometimes

Task Statements

Cue: Your unit has received a mission to travel to another location to pick up several tanks for transport to a port of debarkation.

DANGER

Soldiers must be aware of the inherent dangers of working in and around tactical wheeled vehicles. Hot surfaces, sharp, moving objects such as fan blades, slippery surfaces, and excessively loud noises are all dangers. These dangers are also applicable to hazardous cargo being transported (as applicable). Each Soldier should take every precaution not to become a victim of these dangers by following regulatory guidance and risk management rules.

WARNING

Adhere to all WARNING statements in the referenced technical manuals for the procedures identified for this task.

CAUTION

Adhere to all CAUTION statements in the referenced technical manuals for the procedures identified for this task.

Remarks: None

Notes: None

Performance Steps

1. Remove chock blocks and stow in stowage box.
2. Extend and stow foot rest, as required.
3. Adjust driver's seat, as required.
4. Adjust each rear view mirrors so back of HET Tractor and view of road can be seen.
5. Adjust driver's seat belt, as required.

CAUTION

CTIS on/off switch should be in on position (down) at all times. Overspeed protection will not operate if switch is in off position (up) and tire pressures may not match driving speeds, resulting in unsafe driving conditions or tire damage.

6. Push CTIS on/off switch down to on position.
7. Start engine. (WP 0045)
8. Turn on lights, as required.
9. Set CTIS controller to appropriate load and terrain settings.

Note: • Allow time for CTIS adjustment. When changing terrain/load settings, indicator lights within the button(s) chosen will flash (green) to indicate CTIS is checking and adjusting tire pressures and driveline lockups. Indicator lights will illuminate continuous (green) when tire pressures and driveline lockups are properly set. • If it becomes necessary to disable CTIS, tires will have to be manually inflated or deflated.

WARNING

Rapid or repeated operation of service brakes will consume compressed air supply and cause automatic spring brake application when pressure drops below 45 psi (310 kPa). Failure to follow proper service brake operating procedures may result in serious injury or death to personnel.

10. Apply service brake pedal.
11. Set transmission range selector to appropriate gear range:
 - a. Use Drive (D) for normal/highway operation.
 - b. Use other gear ranges as needed for:
 - (1) Off road.
 - (2) Steep grades.
 - (3) Slippery conditions.

12. Push in parking brake control to release parking brakes. Parking brake indicator will go out.

CAUTION

The CTIS increases tire inflation pressure when HET Tractor speed exceeds the allowable speed for each setting. When an increase in speed is required, maintain the lower speed until the tires are re-inflated to the correct pressure, to prevent damage to tires. Failure to comply may result in damage to equipment.

13. Release service brake pedal and slowly apply throttle pedal until HET Tractor reaches desired speed.

WARNING

Speed limits posted on curves reflect speeds that are considered safe for automobiles. Heavy vehicles with a high center of gravity can roll over at these speed limits. Use care and reduce your speed below the posted limit prior to entering a curve. Failure to comply may result in serious injury or death to personnel.

CAUTION

Do not hold steering wheel at full left or full right for longer than 10 seconds. Oil overheating and pump damage can result.

14. Accelerate, brake, and steer as required.

15. Check engine oil pressure by monitoring low oil pressure indicator, STOP ENGINE indicator, and engine oil pressure gauge.

Note: Engine oil pressure has three monitoring systems (low oil pressure indicator, STOP ENGINE indicator, and engine oil pressure gauge)• If two of three monitoring systems indicate a problem, park HET Tractor, shut OFF engine (WP 0050) and notify field level maintenance.• If only one monitoring system indicates a problem and other two indicate normal, proceed with mission and then notify field level maintenance.

16. Check engine coolant temperature by monitoring high coolant temperature indicator, and coolant temperature gauge.

17. If STOP ENGINE indicator illuminates (red) other than at startup, there is a problem in the engine that could cause damage to the engine. Check for low oil pressure or high coolant temperature. If indicators are normal, continue the mission. Notify field maintenance at completion of mission.

18. If EMERGENCY STEER indicator illuminates (red), there is a problem in the primary hydraulic steering system and the emergency steering (auxiliary) steering system has been activated. As HET Tractor speed gets below 15 mph increased effort will be required to steer HET Tractor, notify field maintenance.

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If any performance measure is failed, tell the soldier what was done wrong and how to do it correctly.

Evaluation Preparation: SETUP: Brief Soldier on task specifications. Provide a M1070A1/M1000 HET Semitrailer Combination, hearing protection, assistant driver, route to operate.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Removed chock blocks and stowed in stowage box.			
2. Extended and stowed foot rest, as required.			
3. Adjusted driver's seat, as required.			
4. Adjusted each rear view mirrors so back of HET Tractor and view of road can be seen.			
5. Adjusted driver's seat belt, as required.			
6. Pushed CTIS on/off switch down to on position.			
7. Started engine. (WP 0045)			
8. Turned on lights, as required.			
9. Set CTIS controller to appropriate load and terrain settings.			
10. Applied service brake pedal.			
11. Set transmission range selector to appropriate gear range:			
12. Pushed in parking brake control to release parking brakes. Parking brake indicator went out.			
13. Released service brake pedal and slowly applied throttle pedal until HET Tractor reached desired speed.			
14. Accelerated, braked, and steered as required.			
15. Checked engine oil pressure by monitoring low oil pressure indicator, STOP ENGINE indicator, and engine oil pressure gauge.			
16. Checked engine coolant temperature by monitoring high coolant temperature indicator, and coolant temperature gauge.			
17. If STOP ENGINE indicator illuminated (red) other than at startup, there was a problem in the engine that could cause damage to the engine. Checked for low oil pressure or high coolant temperature. If indicators were normal, continued the mission. Notified field maintenance at completion of mission.			
18. If EMERGENCY STEER indicator illuminated (red), there was a problem in the primary hydraulic steering system and the emergency steering (auxiliary) steering system had been activated. As HET Tractor speed gets below 15 mph increased effort will be required to steer HET Tractor, notify field maintenance.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	AR 600-55	THE ARMY DRIVER AND OPERATOR STANDARDIZATION PROGRAM (SELECTION, TRAINING, TESTING, AND LICENSING)	No	No
	TC 21-305-20	Manual for the Wheeled Vehicle Operator {AFMAN 24-306(I)}	No	No
	TM 9-2320-427-10	OPERATORS MANUAL FOR TRACTOR, TRUCK, M1070A1 (NSN: 2320-01-564-6882)	No	No
	TM 9-2330-381-14	OPERATORS, UNIT, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL FOR HEAVY EQUIPMENT TRANSPORTER SEMITRAILER, 70 TON, M1000 (NSN 2330-01-303-8832) (EIC: CXU) {TM 09295A-14/1}D	No	No

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT. Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful

effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT

Safety: In a training environment, leaders must perform a risk assessment in accordance with ATP 5-19, Risk Management. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination.

Prerequisite Individual Tasks : None

Supporting Individual Tasks : None

Supported Individual Tasks :

Task Number	Title	Proponent	Status
551-88M-2335	Supervise Loading a Disabled Tracked/Wheeled Vehicle onto a Heavy Equipment Transporter	551 - Transportation (Individual)	Analysis Completed
551-88M-1518	Load Disabled Tracked/Wheeled Vehicle onto a Heavy Equipment Transporter.	551 - Transportation (Individual)	Reviewed

Supported Collective Tasks : None